

AMENDMENTS TO THE CLAIMS

1) – 7) cancelled

8) (ORIGINAL) A composition of matter useful as a phosphor material in light emitting diodes, which composition comprises a material described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 and subject to the proviso that the sum of x, y, or z is equal to at least 1; and wherein B is selected from the group consisting of: Ce, Mn, Ti, Pb, and Sn, and wherein at least 50 % of all of the europium present is present in the divalent state.

9) (ORIGINAL) A composition according to claim 8 wherein $0.5 \leq x \leq 1.5$; $0 \leq y \leq 0.5$; and $0.5 \leq z \leq 1.5$.

10) (ORIGINAL) A composition according to claim 8 wherein $x = 1$, $y = 0$, and $z = 1$.

11) (ORIGINAL) A composition according to claim 8 wherein $1.5 \leq x \leq 2.5$; $0 \leq y \leq 0.5$; and $0 \leq z \leq 0.5$.

12) (ORIGINAL) A composition according to claim 8 wherein $x = 2$, $y = 0$, and $z = 0$.

13) (ORIGINAL) A composition according to claim 8 wherein $1.0 \leq x \leq 2.0$; $0 \leq y \leq 1.0$; and $0 \leq z \leq 0.5$.

14) (ORIGINAL) A composition according to claim 8 wherein $x = 1.5$, $y = 0.5$, and $z = 0$.

15) (ORIGINAL) A composition according to claim 8 wherein B is present in any amount between about 0.0001% and about 5 % in mole percent based on the total molar weight of said composition.

16) (ORIGINAL) A composition according to claim 9 wherein B is present in any amount between about 0.0001% and about 5 % in mole percent based on the total molar weight of said composition.

17) (ORIGINAL) A composition according to claim 10 wherein B is present in any amount between about 0.0001% and about 5 % in mole percent based on the total molar weight of said composition.

18) - 22) cancelled

23) (CURRENTLY AMENDED) A light emitting device ~~as set forth in claim 21,~~
~~comprising a mixture of at least two different phosphors described by said formula.~~

comprising:

a) a light source selected from the group consisting of: light-emitting diodes, lamps, and lasers, wherein said light source emits light having a frequency of between about 360 and about 480 nanometers; and

b) a mixture of at least two different phosphors described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 subject to the proviso that the sum of x, y, or z is equal to at least 1, and wherein at least 50 % of all of the europium present is present in the divalent state, wherein said mixture of phosphors is disposed in a location at which it receives light from said light source.

24) (CURRENTLY AMENDED) A light emitting device according to claim 23, wherein said mixture of at least two different phosphors emit white light.

25) cancelled

26) (CURRENTLY AMENDED) A light emitting device ~~as set forth in claim 21,~~ comprising:

- a) a light source selected from the group consisting of: light-emitting diodes, lamps, and lasers, wherein said light source emits light having a frequency of between about 360 and about 480 nanometers; and
- b) a phosphor described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 subject to the proviso that the sum of x, y, or z is equal to at least 1, and wherein at least 50 % of all of the europium present is present in the divalent state, and further comprising :

- c) a phosphor described by the formula:



in which x, y, and z are each independently any value between 0 and 2, including 0 and 2 subject to the proviso that the sum of x, y, or z is equal to at least 1, and further comprising at least one additional element B selected from the group consisting of: Ce, Mn, Ti, Pb, and Sn, wherein said additional element B is present in any amount between about 0.0001 % and about 5% in mole percent based upon the total molar weight of said phosphor, and wherein at least 50 % of all of the europium present is present in the divalent state, thus providing a mixture of phosphors, wherein said mixture of phosphors is disposed in a location at which it receives light from said light source.

27) (ORIGINAL) A device according to claim 26, wherein said mixture of phosphors emit white light.

28) cancelled